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Sorgaard, P.; Sandahl, T.I.;

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4 SGML nets: integrating document and workflow modeling

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**5 Making complex document structures accessible through
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Kuhl, M.; Reichmann, C.; Protel, I.; Muller-Glaser, K.D.;
 Rapid System Prototyping, 2002. Proceedings. 13th IEEE
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Campa, G.; Davini, M.; Innocenti, M.;
 Computer-Aided Control System Design, 2000. CACSD 2000. IEEE
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Bramley, R.; Chiu, K.; Diwan, S.; Gannon, D.; Govindaraju, M.;
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front-end system for vision-based control and interaction*Jin, H.; Favaro, P.; Saotto, S.;*

Computer Vision and Pattern Recognition, 2000. Proceedings. IEEE Conference on , Volume: 2 , 2000

Page(s): 778 -779 vol.2

[\[Abstract\]](#) [\[PDF Full-Text \(236 KB\)\]](#) **IEEE CNF****5 Accurate estimation in the ODFT domain of the frequency, phase and magnitude of stationary sinusoids***Ferreira, A.J.S.;*

Applications of Signal Processing to Audio and Acoustics, 2001 IEEE Workshop on the , 2001

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IEEE Signal Processing Letters , Volume: 9 Issue: 3 , Mar 2002

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|-------|---|-----|
| 1 | Generating hypermedia from specifications by sketching multimedia templates
S. Fraïssé , J. Nanard , M. Nanard
Proceedings of the fourth ACM international conference on Multimedia
February 1997 | 95% |
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| 2 | Automatic generation of amendment legislation
Timothy Arnold-Moore
Proceedings of the sixth international conference on Artificial intelligence
and law June 1997 | 94% |
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| 3 | Reviewed articles: SIGAda 2001 workshop, "creating a symbiotic relationship between XML and Ada"
Robert C. Leif
ACM SIGAda Ada Letters September 2002
Volume XXII Issue 3
The purpose of the workshop was to organize the Ada community to take advantage of the opportunity to create Ada applications that are operating systems independent because they are based on a web technology, XML, Extensible Markup Language. The commercial use of the Internet is the driving force behind XML. Four elements of XML, which together are sufficient to build a web application, and all employ the same syntax were described. These are XML; its schema; the Extensible Stylesheet Language, ... | 90% |

- 4 Implementing catalog clearinghouses with XML and XSL 89%
Andrew V. Royappa
Proceedings of the 1999 ACM symposium on Applied computing
February 1999
- 5 From hardcopy to online: changes to the editor's role and 89%
processes
Betsy Brown , Karen Collier , Chuck Farr , Betty Littrell , Sharon Slagle ,
Deborah Stratton
Proceedings of the 14th annual international conference on Systems
documentation: Marshaling new technological forces: building a
corporate, academic, and user-oriented triangle October 1996
- 6 Voice-enabled structured medical reporting 88%
Mary-Marshall Teel , Rachael Sokolowski , David Rosenthal , Matt Belge
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systems January 1998
- 7 Manufacturing documentation in the virtual warehouse 88%
Tom Banfalvi , Peter Sturgeon , Christina L. K. Walsh
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documentation: Marshaling new technological forces: building a
corporate, academic, and user-oriented triangle October 1996
- 8 Pushing reuse in hypermedia design: golden rules, design patterns 87%
and constructive templates
Marc Nanard , Jocelyne Nanard , Paul Kahn
Proceedings of the ninth ACM conference on Hypertext and hypermedia
: links, objects, time and space---structure in hypermedia systems:
links, objects, time and space---structure in hypermedia systems May
1998
- 9 Literate programming and structured authoring: Making complex 85%
document structures accessible through templates
Felix H. Gatzemeier , Oliver Meyer
Proceedings of IEEE professional communication society international
professional communication conference and Proceedings of the 18th
annual ACM international conference on Computer documentation:
technology & teamwork September 2000
We address two problems of technical authors in structured
environments: (1) Structure definitions of the SGML school are
limiting: they require one primary hierarchy and do not cater for link

types and (2) Real-life structure definitions are too large to be comprehended easily. As solutions, we propose graph types and usage templates. The edge types and inheritance of the proposed graph type model are useful modeling tools. We give examples for structures that can be expressed more precisely and ...

10 Compus: visualization and analysis of structured documents for 85%

understanding social life in the 16th century

Jean-Daniel Fekete , Nicole Dufournaud

Proceedings of the fifth ACM conference on Digital libraries June 2000

This article describes the Compus visualization system that assists in the exploration and analysis of structured document corpora encoded in XML. Compus has been developed for and applied to a corpus of 100 French manuscript letters of the 16th century, transcribed and encoded for scholarly analysis using the recommendations of the Text Encoding Initiative. By providing a synoptic visualization of a corpus and allowing for dynamic queries and structural transformations, Compus ...

11 Dynamically assembled documentation 85%

Michael Priestley

Proceedings of the 17th annual international conference on Computer documentation October 1999

As online information becomes more comprehensive in its scope, the sheer wealth of information can be overwhelming. Information needs to be both browsable and searchable, and both needs are best met with a structured information approach (such as SGML or XML). Browsing assumes a primary sequence of all information, which is unlikely to be appropriate for all readers. Searching assumes no primary sequence: information is sorted by relevance for a particular query, creating any numb ...

12 Add one egg, a cup of milk, and stir: single source documentation 85%

for today

Carl Stieren

Proceedings of the 15th annual international conference on Computer documentation October 1997

13 Team building and single sourcing: Creating single-sourced 84%

tutorials

Carl Stieren

Proceedings of IEEE professional communication society international professional communication conference and Proceedings of the 18th annual ACM international conference on Computer documentation:

technology & teamwork September 2000

Suppose you want to integrate a tutorial - or several tutorials - into your product documentation. Doing so can let your users check their understanding and ability to use what they've learned. In HTML documentation, for example, you could structure your pre-exam documentation so that it builds toward a core set of principles and procedures that you identify as necessary for a typical user. At OmniMark, we had two pieces to this puzzle, but they hadn't been integrated. We had our HTML documentat ...

14 ESSQL: an enhanced semi-structured query language for 84%

 composite document retrievals

Reo-Jo Yamashita , Tetsuro Ito , Hsiu-Hsen Yao

Proceedings of the 16th annual international conference on Computer documentation September 1998

15 SST: using single-sourcing, SGML, and teamwork for 83%

 documentation

Carl Stieren

Proceedings of the 17th annual international conference on Computer documentation October 1999

Suppose you don't have a fancy database-driven system to generate your documentation. How can you develop single-source documentation for output in multiple formats, without having to store your source in a specific format that will soon become obsolete? The answer is to use a combination of your own SGML or XML tags to mark up your documentation and a simple OmniMark® program to create each output format and presentation style. There's also a third ingredient: teamwork. As much as any ...

16 Documents are programs 83%

 Tony Cahill , Michael G. Hinchey , Liam Relihan

Proceedings of the 11th annual international conference on Systems documentation November 1993

17 Electronic component information exchange (ECIX) 83%

 Donald R. Cottrell

Proceedings of the 34th annual conference on Design automation conference June 1997

18 Translating among processable multi-media document formats 82%

 using ODA

Jonathan Rosenberg , Mark S. Sherman , Ann Marks , Frank Giufrida

Proceedings of the ACM conference on Document processing systems



January 2000

- 19 Using the web for document versioning: an implementation report 82%
for Delta V

James J. Hunt , Jürgen Reuter

Proceedings of the 23rd international conference on Software engineering July 2001

The current suite of systems that offer client/server capabilities for document versioning relies on proprietary protocols for communicating between a central versioning repository and a remote client. In order to support better document authoring via the Web, the DeltaV working group of the Web-DAV (WWW Distributed Authoring and Versioning) project of the Internet Engineering Task Force is working on a standard protocol for versioning over HTTP. The authors present a prototype of DeltaV b ...

- 20 XML based adaptation of the composite approach for database 82%
integration

Brian Ensink , Kimberly Haveman , Mochan Shrestha , Todd Schavey
Proceedings of the 37th annual Southeast regional conference (CD-ROM) April 1999

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- 1  XML transactions: An object-oriented extension of XML for autonomous web applications 100%
Hasan M. Jamil , Giovanni A. Modica
Proceedings of the eleventh international conference on Information and knowledge management November 2002
While the idea of extending XML to include object-oriented features has been gaining popularity in general, the potential of inheritance in document design has not been well recognized in contemporary research. In this paper we demonstrate that XML with dynamic inheritance aids better document designs and decreased management overheads and support increased autonomy. As an extended application, we point out that dynamic inheritance also helps effective automated web portal and ontology designs.W ...
 - 2  XML Applications: An incremental XSLT transformation processor for XML document manipulation 100%
Lionel Villard , Nabil Layaida
Proceedings of the eleventh international conference on World Wide Web May 2002
In this paper, we present an incremental transformation framework called incXSLT. This framework has been experimented for the XSLT


language defined at the World Wide Web Consortium. For the currently available tools, designing the XML content and the transformation sheets is an inefficient, a tedious and an error prone experience. Incremental transformation processors such as incXSLT represent a better alternative to help in the design of both the content and the transformation sheets. We belie ...

- 3  Hypermedia and Graphics 2: Authoring transformations by direct manipulation for adaptable multimedia presentations 99%

Lionel Villard

Proceedings of the 2001 ACM Symposium on Document engineering
November 2001


In this paper, we present a method for authoring generic and adaptable multimedia presentations. This method relies on document transformations. For the currently available tools, designing the XML content and the transformation sheets is a tedious and error prone experience. We propose a framework based on an incremental transformation process. Incremental transformation processors represent a better alternative to help in the design of both the content and the transformation sheets. We believe ...

- 4  Transformations and Experiences: Towards static type checking for XSLT 98%

Akihiko Tozawa

Proceedings of the 2001 ACM Symposium on Document engineering
November 2001

We are concerned about the *static type checking* problem for XSLT. In the context of XSLT and other XML programming, *types* are DTDs or schemas, and *static type checking* is to verify that a program always converts valid source documents into also valid output documents. To achieve static type checking for XSLT, we introduce a subset of XSLT, and an efficient algorithm of *backward type inference* for that subset. Although our XSLT subset lacks XPath, it includes recursiv ...

- 5  XML query processing: Efficient evaluation of multiple queries on streaming XML data 97%

Mong Li Lee , Boon Chin Chua , Wynne Hsu , Kian-Lee Tan

Proceedings of the eleventh international conference on Information and knowledge management November 2002

Traditionally, XML documents are processed at where they are stored. This allows the query processor to exploit pre-computed data structures (e.g., index) to retrieve the desired data efficiently. However, this mode of processing is not suitable for many

applications where the documents are frequently updated. In such situations, efficient evaluation of multiple queries over streaming XML documents becomes important. This paper introduces a new operator, mqX-scan, which efficiently evaluates mul ...

6 Comparative analysis of five XML query languages 97%

Angela Bonifati , Stefano Ceri
ACM SIGMOD Record March 2000
Volume 29 Issue 1

XML is becoming the most relevant new standard for data representation and exchange on the WWW. Novel languages for extracting and restructuring the XML content have been proposed, some in the tradition of database query languages (i.e. SQL, OQL), others more closely inspired by XML. No standard for XML query language has yet been decided, but the discussion is ongoing within the World Wide Web Consortium and within many academic institutions and Internet-related major companies. We present ...

7 A workflow-based electronic marketplace on the Web 97%

Asuman Dogac , Ilker Durusoy , Sena Arpinar , Nesime Tatbul , Pinar Koksall , Ibrahim Cingil , Nazife Dimililer
ACM SIGMOD Record December 1998
Volume 27 Issue 4

In this paper, we describe an architecture for an open marketplace exploiting the workflow technology and the currently emerging data exchange and metadata representation standards on the Web. In this market architecture electronic commerce is realized through the adaptable workflow templates provided by the marketplace to its users. Having workflow templates for electronic commerce processes results in a component-based architecture where components can be agents (both buying an ...

8 Human-computer interaction: Schema modelling for automatic generation of multimedia presentations 96%

Augusto Celentano , Ombretta Gaggi
Proceedings of the 14th international conference on Software engineering and knowledge engineering July 2002

Multimedia documents are an effective way to present different kinds of information, since the integration of different media types gives more expressive power and opportunities to catch the user attention. A multimedia report is a multimedia presentation built on a set of data returned by one or more queries to multimedia repositories, integrated according to a schema with appropriate spatial layout and temporal synchronization, and coherently delivered to a user for browsing. We discuss the pr ...

9 Structure and transformation of documents: Towards automating 95%
of document structure transformations

Eila Kuikka , Paula Leinonen , Martti Penttonen

Proceedings of the 2002 ACM symposium on Document engineering
November 2002

In this paper we develop a syntax-directed approach to transformation of documents from one structure to another. The aim is to automate a transformation between two grammars that have common parts, although the grammars and names of elements may differ. In an important case, called local transformations, the transformation can be performed by a finite state tree transducer. We propose a system that can generate a transformation semi-automatically if the user defines a matching between the eleme ...

10 An XJML-based wrapper generator for Web information extraction 95%

Ling Liu , Wei Han , David Buttler , Calton Pu , Wei Tang
ACM SIGMOD Record , Proceedings of the 1999 ACM SIGMOD
international conference on Management of data June 1999
Volume 28 Issue 2

11 Transformations and Experiences: VXT: a visual approach to XML 95%
transformations

Emmanuel Pietriga , Jean-Yves Vion-Dury , Vincent Quint

Proceedings of the 2001 ACM Symposium on Document engineering
November 2001

The domain of XML transformations is becoming more and more important as a result of the increasing number of applications adopting XML as their format for data exchange or representation. Most of the existing solutions for expressing XML transformations are textual languages, such as XSLT or DOM combined with a general-purpose programming language. Several tools build on top of these languages, providing a graphical environment. Transformations are however still specified in a textual way using ...

12 On specifying security policies for web documents with an XML-based language 94%

Elisa Bertino , Silvana Castano , Elena Ferrari

Proceedings of the Sixth ACM Symposium on Access control models and technologies May 2001

The rapid growth of the Web and the ease with which data can be accessed facilitate the distribution and sharing of information. Information dissemination often takes the form of documents that are made available at Web servers, or that are actively broadcasted

by Web servers to interested clients. In this paper, we present an XML-compliant formalism for specifying security-related information for Web document protection. In particular, we introduce X-Sec, an XML-based lang ...

13 Syndication with JML 94%

Robert Barta , Markus Schranz
Proceedings of the 2000 ACM symposium on Applied computing March 2000

14 Using the web for document versioning: an implementation 93%

report for Delta V
James J. Hunt , Jürgen Reuter
Proceedings of the 23rd international conference on Software engineering July 2001





The current suite of systems that offer client/server capabilities for document versioning relies on proprietary protocols for communicating between a central versioning repository and a remote client. In order to support better document authoring via the Web, the DeltaV working group of the Web-DAV (WWW Distributed Authoring and Versioning) project of the Internet Engineering Task Force is working on a standard protocol for versioning over HTTP. The authors present a prototype of DeltaV b ...

15 Session 3: Stylesheet transformations for interactive 92%

visualization: towards a Web3D chemistry curricula
Nicholas F. Polys
Proceeding of the eighth international conference on 3D web technology March 2003

Recent Standards specifications offer important but underemployed techniques to maximize access-to and distribution-of information for real-time 3D visualization over the web. This paper describes and evaluates such techniques to transform structured data such as Chemical Markup Language (CML) to different forms and contexts for Web3D delivery using Extensible Stylesheet Transformations (XSLT), Extensible 3D (X3D), and VRML97. Standards design approaches offer a number of advantages: data durabi ...

16 An intelligent distributed environment for active learning 92%


-  **Journal of Educational Resources in Computing (JERIC) August 2001**
Active learning is an effective learning approach. In this article we present an intelligent agent-assisted environment for active learning to better support the student-centered, selfpaced, and highly interactive learning approach. The environment uses the students learningrelated profile such as learning style and background knowledge in selecting, organizing, and presenting learning material, and it adopts a new approach to course content organization and delivery based on smart instruct ...
- 17 Document Databases: The extended XQL for querying and updating large XML databases** 91%
 Raymond K. Wong
Proceedings of the 2001 ACM Symposium on Document engineering November 2001
XQL has been argued as just a model for asking for specific sets of elements with very limited query capability. This paper proposes several extensions of XQL to address the issues. The extensions include full-text indexed search, path variables, joins, session-based navigations, and updates. Effort has been spent to preserve the conciseness of the language syntax. Its corresponding query processor with optimization mechanism has been prototyped and available online. Finally, implementation issu ...
- 18 Query Language for Semantic Web: Translating XSLT programs to Efficient SQL queries** 91%
 Sushant Jain , Ratul Mahajan , Dan Suciu
Proceedings of the eleventh international conference on World Wide Web May 2002
We present an algorithm for translating XSLT programs into SQL. Our context is that of virtual XML publishing, in which a single XML view is defined from a relational database, and subsequently queried with XSLT programs. Each XSLT program is translated into a single SQL query and run entirely in the database engine. Our translation works for a large fragment of XSLT, which we define, that includes descendant/ancestor axis, recursive templates, modes, parameters, and aggregates. We put considera ...
- 19 Efficient evaluation of XML middle-ware queries** 91%
 Mary Fernandez , Atsuyuki Morishima , Dan Suciu
ACM SIGMOD Record , Proceedings of the 2001 ACM SIGMOD international conference on Management of data May 2001
Volume 30 Issue 2

We address the problem of efficiently constructing

materialized XML views of relational databases. In our setting, the XML view is specified by a query in the declarative query language of a middle-ware system, called SilkRoute. The middle-ware system evaluates a query by sending one or more SQL queries to the target relational database, integrating the resulting tuple streams, and adding the XML tags. We focus on how to best choose the SQL queries, without having control over the target RDBM ...

20 Software reuse: XVCL: a tutorial

91%

 Soe Myat Swe , Hongyu Zhang , Stan Jarzabek

Proceedings of the 14th international conference on Software engineering and knowledge engineering July 2002

XVCL (XML-based Variant Configuration Language) is a general-purpose mark-up language for configuring variants in programs and other types of documents. We can apply XVCL to configure variants in a variety of software assets such as software architecture, program code, test cases, technical and user-level program documentation or requirement specifications. The principles of the XVCL have been thoroughly tested in practice. XVCL is based on the same concepts as the frame technology [1].
Frame te ...

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1 XML transactions: An object-oriented extension of XML for **100%**



autonomous web applications

Hasan M. Jamil , Giovanni A. Modica

Proceedings of the eleventh international conference on Information and knowledge management November 2002

While the idea of extending XML to include object-oriented features has been gaining popularity in general, the potential of inheritance in document design has not been well recognized in contemporary research. In this paper we demonstrate that XML with dynamic inheritance aids better document designs and decreased management overheads and support increased autonomy. As an extended application, we point out that dynamic inheritance also helps effective automated web portal and ontology designs.W ...

2 Transformations and Experiences: Towards static type checking **98%**



for XSLT

Akihiko Tozawa

Proceedings of the 2001 ACM Symposium on Document engineering November 2001

We are concerned about the *static type checking* problem for XSLT. In the context of XSLT and other XML programming, *types* are DTDs or schemas, and *static type checking* is to verify that a program always converts valid source documents into also valid output documents. To achieve static type checking for XSLT, we introduce



a subset of XSLT, and an efficient algorithm of *backward type inference* for that subset. Although our XSLT subset lacks XPath, it includes recursiv ...

3 Query Language for Semantic Web: Translating XSLT programs to Efficient SQL queries 91%



Sushant Jain , Ratul Mahajan , Dan Suciu

Proceedings of the eleventh international conference on World Wide Web May 2002

We present an algorithm for translating XSLT programs into SQL. Our context is that of virtual XML publishing, in which a single XML view is defined from a relational database, and subsequently queried with XSLT programs. Each XSLT program is translated into a single SQL query and run entirely in the database engine. Our translation works for a large fragment of XSLT, which we define, that includes descendant/ancestor axis, recursive templates, modes, parameters, and aggregates. We put considera ...

4 B2B contract implementation using windows DNS 88%



Ning He , Zoran Milosevic

Australian Computer Science Communications , Proceedings of the workshop on Information technology for virtual enterprises January 2001

Volume 23 Issue 6

This paper describes our implementation of a support infrastructure for electronic contracting --- an important ingredient of Business-to-Business (B2B) e-commerce. The paper first explains the main benefits of the new generation of Microsoft technologies - Windows Distributed interNet Applications Architecture (DNA) and BizTalk. This is followed by a detailed description of how we take advantage of the XML tools provided by these technologies - to implement our enterprise model of contracts. We ...

5 Process integration: Writing as software development: making meaning before, after, and of the code 87%



Scott Lockhart , Rahul Mehrotra

Proceedings of IEEE professional communication society international professional communication conference and Proceedings of the 18th annual ACM international conference on Computer documentation: technology & teamwork September 2000

This paper presents some thoughts on redefining a technical writer's role in the software development process. It outlines ways in which writers can use their writing skills to collaborate with and add value to the HCI (human computer interaction) and software architecture functions. It also points to areas that writers need to explore further

to discover the ways in which they can contribute meaningfully to information, and therefore product, development throughout the life cycle of the softwar ...

- ⑥ Session 14: middleware support for multimedia: A pluggable service-to-service communication mechanism for home multimedia networks 87%
Jin Nakazawa , Hideyuki Tokuda
Proceedings of the 2002 ACM workshops on Multimedia December 2002

This paper proposes a pluggable service-to-service (S2S) communication mechanism in a middleware for home networks, called Virtual Networked Appliance (VNA) architecture. In the architecture, service description method and the plug-gable S2S communication mechanism are separated in an orthogonal way. Through the separation, VNA architecture solved problems of home networks on which users have to operate multiple heterogeneous middleware technologies simultaneously: middleware fragmentation probl ...

- ⑦ Performance evaluation of software architecture: XSLT transformation from UML models to LQN performance models 87%
Gordon P. Gu , Dorina C. Petriu
Proceedings of the third international workshop on Software and performance July 2002

A graph grammar-based transformation of a UML design model into a Layered Queueing Network (LQN) performance model was previously proposed by the authors of this paper. The actual transformation was implemented in two ways: first by using an existing graph-rewriting tool, and secondly through an ad-hoc graph transformation implemented in Java. This paper extends the previous work of the authors by proposing a third approach to implement the UML to LQN transformation by using XSLT. Recommended by ...

- ⑧ Industry track papers and presentations: product lines: Integrating hundred's of products through one architecture: the industrial IT architecture 87%
Lars G. Bratthall , Robert van der Geest , Holger Hofmann , Edgar Jellum , Zbigniew Korendo , Robert Martinez , Michal Orkisz , Christian Zeidler , Johan S Andersson
Proceedings of the 24th international conference on Software engineering May 2002

During the last few years, software product line engineering has gained significant interest as a way for creating software products

faster and cheaper. But what architecture is needed to integrate huge amounts of products, from different product lines? This paper describes such an architecture and its support processes and tools. Through cases, it is illustrated how the architecture is used to integrate new --- and old --- products in such diverse integration projects as vessel motion control, ...

- 9 An architecture for secure wide-area service discovery 87%
📄 Todd D. Hodes , Steven E. Czerwinski , Ben Y. Zhao , Anthony D. Joseph , Randy H. Katz
Wireless Networks March 2002
Volume 8 Issue 2/3

The widespread deployment of inexpensive communications technology, computational resources in the networking infrastructure, and network-enabled end devices poses an interesting problem for end users: how to locate a particular network service or device out of hundreds of thousands of accessible services and devices. This paper presents the architecture and implementation of a secure wide-area Service Discovery Service (SDS). Service providers use the SDS to advertise descriptions of available ...

- 10 Model-driven development of Web applications: the AutoWeb 87%
📄 system
Piero Fraternali , Paolo Paolini
ACM Transactions on Information Systems (TOIS) October 2000
Volume 18 Issue 4

This paper describes a methodology for the development of WWW applications and a tool environment specifically tailored for the methodology. The methodology and the development environment are based upon models and techniques already used in the hypermedia, information systems, and software engineering fields, adapted and blended in an original mix. The foundation of the proposal is the conceptual design of WWW applications, using HDM-lite, a notation for the specification of structure, nav ...

- 11 Software engineering: theory, application and practice: Using 85%
📄 XML to implement abstraction for Model Checking
María del Mar Gallardo , Jesús Martínez , Pedro Merino , Estefanía Rosales
Proceedings of the 2002 ACM symposium on Applied computing March 2002

Model Checking has become one of the most powerful methods for automatic verification of software systems. However it is widely accepted that this technique is only usable when the behavior of the

system to be analyzed is given by small models, in order to avoid the state explosion problem. The paper presents α SPIN, an XML-based tool for obtaining abstract versions from a given model written in PROMELA, which can be verified with the model checker SPIN. ...

12 SilkRoute: A framework for publishing relational data in XML 85%

Mary Fernández , Yana Kadiyska , Dan Suciu , Atsuyuki Morishima , Wang-Chiew Tan

ACM Transactions on Database Systems (TODS) December 2002
Volume 27 Issue 4

XML is the "lingua franca" for data exchange between interenterprise applications. In this work, we describe SilkRoute, a framework for publishing relational data in XML. In SilkRoute, relational data is published in three steps: the relational tables are presented to the database administrator in a canonical XML view; the database administrator defines in the XQuery query language a public, virtual XML view over the canonical XML view; and an application formulates an XQuery query over the publ ...

13 Tools for application-oriented performance tuning 82%

John Mellor-Crummey , Robert Fowler , David Whalley

Proceedings of the 15th international conference on Supercomputing
June 2001

Application performance tuning is a complex process that requires assembling various types of information and correlating it with source code to pinpoint the causes of performance bottlenecks. Existing performance tools don't adequately support this process in one or more dimensions. We discuss some of the critical utility and usability issues for application-level performance analysis tools in the context of two performance tools, *MHSim* and *HPCView*, that we built to support our ...

14 Research session 1: award winning papers: Monadic datalog and 82%


the expressive power of languages for web information extraction
Georg Gottlob , Christoph Koch

Proceedings of the twenty-first ACM SIGMOD-SIGACT-SIGART
symposium on Principles of database systems June 2002

Research on information extraction from Web pages (wrapping) has seen much activity in recent times (particularly systems

implementations), but little work has been done on formally studying the expressiveness of the formalisms proposed or on the theoretical foundations of wrapping. In this paper, we first study monadic datalog as a wrapping language (over ranked or unranked tree structures). Using previous work by Neven and Schwentick, we show that this simple language is equivalent to full mona ...

15 A 3D XML-based customized framework for dynamic models 82%

 Taewoo Kim , Paul A. Fishwick

Proceeding of the seventh international conference on 3D Web technology February 2002

There are numerous forms for dynamic models, which specify how an object or scene behaves over time. Discrete state automata, Petri nets, and data flow graphs are only a few samples of model types available, which aid modelers in capturing dynamics. Whereas most modeling frameworks employ rigidly defined textual or 2D symbols for representing such abstract entities as state, event, and function, we present a system called *rube* that allows the modeler to craft models in 3D, and with person ...

16 Session P11: visualization systems and image-based 80%

 visualization: A model for the visualization exploration process

T. J. Jankun-Kelly , Kwan Liu Ma , Michael Gertz

Proceedings of the conference on Visualization '02 October 2002

The current state of the art in visualization research places a strong emphasis on different techniques to derive insight from disparate types of data. However, little work has investigated the visualization process itself. The information content of the visualization process---the results, history, and relationships between those results---is addressed by this work. A characterization of the visualization process is discussed, leading to a general model of the visualization exploration process. ...

17 Research sessions: XML I: QURSED: querying and reporting 80%

 semistructured data

Yannis Papakonstantinou , Michalis Petropoulos , Vasilis Vassalos

Proceedings of the 2002 ACM SIGMOD international conference on Management of data June 2002

QURSED enables the development of web-based query forms and reports (QFRs) that query and report semistructured XML data, i.e., data that are characterized by nesting, irregularities and structural variance. The query aspects of a QFR are captured by its query set specification, which formally encodes multiple parameterized condition fragments and can describe large numbers of queries. The run-time component of QURSED produces XQuery-compliant

queries by synthesizing fragments from the query set ...

18 Employing hierarchical federation communities in the virtual ship architecture 80%

Anthony Cramp , Michael Oudshoorn

Australian Computer Science Communications , Proceedings of the twenty-fifth Australasian conference on Computer science - Volume 4 January 2002

Volume 24 Issue 1

This paper discusses work underway to develop a framework for the use of hierarchical federation communities as a tool for distributed simulation. The Virtual Ship Project is the application driving the development of the framework. The specific problem within the Virtual Ship Project is one of having to filter unwanted data. It is expected that a hierarchical federation community structure will implicitly provide the necessary data filtering. There are two main goals in establishing hierarchical ...

19 Spoken dialogue technology: enabling the conversational user interface 80%

ACM Computing Surveys (CSUR) March 2002

Volume 34 Issue 1

Spoken dialogue systems allow users to interact with computer-based applications such as databases and expert systems by using natural spoken language. The origins of spoken dialogue systems can be traced back to Artificial Intelligence research in the 1950s concerned with developing conversational interfaces. However, it is only within the last decade or so, with major advances in speech technology, that large-scale working systems have been developed and, in some cases, introduced into commerce ...

20 An algebra for composing access control policies 80%

Piero Bonatti , Sabrina De Capitani di Vimercati , Pierangela Samarati

ACM Transactions on Information and System Security (TISSEC)

February 2002

Volume 5 Issue 1

Despite considerable advancements in the area of access control and authorization languages, current approaches to enforcing access control are all based on monolithic and complete specifications. This assumption is too restrictive when access control restrictions to be enforced come from the combination of different policy specifications, each possibly under the control of independent authorities, and where the specifics of some component policies may not even be known apriori. Turning individu ...



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1 SIGSAM BULLETIN: Computer algebra in the life sciences 91%



Michael P. Barnett

ACM SIGSAM Bulletin December 2002

Volume 36 Issue 4

This note (1) provides references to recent work that applies computer algebra (CA) to the life sciences, (2) cites literature that explains the biological background of each application, (3) states the mathematical methods that are used, (4) mentions the benefits of CA, and (5) suggests some topics for future work.

2 A prototype notebook-based environment for computational tools 85%



Jenifer L. Skidmore , Matthew J. Sottile , Janice E. Cuny , Allen D. Malony

Proceedings of the 1998 ACM/IEEE conference on Supercomputing (CDROM) November 1998

The Virtual Notebook Environment (ViNE) is a platform-independent, web-based interface designed to support a range of scientific activities across distributed, heterogeneous computing platforms. ViNE provides scientists with a web-based version of the common paper-based lab notebook, but in addition, it provides support for collaboration and management of computational experiments.

Collaboration is supported with the web-based approach, which makes notebook material generally accessible and with ...

- 3 Proximal support vector machine classifiers 84%
Glenn Fung , Olvi L. Mangasarian
Proceedings of the seventh ACM SIGKDD international conference on Knowledge discovery and data mining August 2001
Instead of a standard support vector machine (SVM) that classifies points by assigning them to one of two disjoint half-spaces, points are classified by assigning them to the closest of two parallel planes (in input or feature space) that are pushed apart as far as possible. This formulation, which can also be interpreted as regularized least squares and considered in the much more general context of regularized networks [8, 9], leads to an extremely fast and simple algorithm for generating a li ...
- 4 Design of a performance technology infrastructure to support the construction of responsive software 84%
E. Papaefstathiou
Proceedings of the second international workshop on Software and performance September 2000
- 5 A case for source-level transformations in MATLAB 84%
Vijay Menon , Keshav Pingali
ACM SIGPLAN Notices , Proceedings of the 2nd conference on Domain-specific languages January 2000
Volume 35 Issue 1
In this paper, we discuss various performance overheads in MATLAB codes and propose different program transformation strategies to overcome them. In particular, we demonstrate that high-level source-to-source transformations of MATLAB programs are effective in obtaining substantial performance gains regardless of whether programs are interpreted or later compiled into C or FORTRAN. We argue that automating such transformations provides a promising area of future research.
- 6 East Coast Computer Algebra Day '99 (April 24, 1999): abstracts of invited talks and presented posters 82%
ACM SIGSAM Bulletin June 1999
Volume 33 Issue 2
- 7 Computer assisted proof of optimal approximability results 82%
Uri Zwick
Proceedings of the thirteenth annual ACM-SIAM symposium on Discrete

algorithms January 2002

We obtain computer assisted proofs of several spherical volume inequalities that appear in the analysis of semidefinite programming based approximation algorithms for Boolean constraint satisfaction problems. These inequalities imply, in particular, that the performance ratio achieved by the MAX 3-SAT approximation algorithm of Karloff and Zwick is indeed $7/8$, as conjectured by them, and that the performance ratio of the MAX 3-CSP algorithm of the author is indeed $1/2$. Other results are also imp ...


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|----|---|-----|
| 8 | Symbolic and algebraic computation in robust stability analysis | 82% |
| 4 | Nainn-Ping Ke
ACM SIGSAM Bulletin March 2000
Volume 34 Issue 1 | |
| 9 | Hybrid computation of bivariate rational interpolation | 82% |
| 4 | Hiroshi Kai , Matu-Tarow Noda
ACM SIGSAM Bulletin March 2000
Volume 34 Issue 1 | |
| 10 | Rapid computation of Bernoulli and related numbers | 82% |
| 4 | K. Hare
ACM SIGSAM Bulletin March 2000
Volume 34 Issue 1 | |
| 11 | Computing gröbner fans of toric ideals | 82% |
| 4 | Birkett Huber
ACM SIGSAM Bulletin March 2000
Volume 34 Issue 1 | |
| 12 | Requirements for and evaluation of RMI protocols for scientific computing | 82% |
| 4 | Madhusudhan Govindaraju , Aleksander Slominski , Venkatesh Choppella , Randall Bramley , Dennis Gannon
Proceedings of the 2000 ACM/IEEE conference on Supercomputing (CDROM) November 2000
Distributed software component architectures provide a promising approach to the problem of building large scale, scientific Grid applications. Communication in these component architectures is based on Remote Method Invocation (RMI) protocols that allow one software component to invoke the functionality of another. Examples include Java remote method invocation (Java RMI) and the new Simple Object Access Protocol (SOAP). SOAP has the advantage that many programming languages and component ... | |

13 A MATLAB differentiation matrix suite 82%

 ACM Transactions on Mathematical Software (TOMS) December 2000
Volume 26 Issue 4

A software suite consisting of 17 MATLAB functions for solving differential equations by the spectral collocation (i.e., pseudospectral) method is presented. It includes functions for computing derivatives of arbitrary order corresponding to Chebyshev, Hermite, Laguerre, Fourier, and sinc interpolants. Auxiliary functions are included for incorporating boundary conditions, performing interpolation using barycentric formulas, and computing roots of orthogonal polynomials. It is demonstrated ...

14 DSP Software Development 82%

 Ian V. McLoughlin

Linux Journal January 1999

Follow the development of speech algorithms for digital radios through the complete project life cycle


15 Product Reviews 82%

 Patrick Galbraith

Linux Journal December 1998

Mathematica version 3.0 for Linux: Review of new Maple release.
Contacting Waterloo for new version

16 An interface optimization and application for the numerical solution 82%

 of optimal control problems


Matthias Heinkenschloss , Luís N. Vicente

ACM Transactions on Mathematical Software (TOMS) June 1999

Volume 25 Issue 2

An interface between the application problem and the nonlinear optimization algorithm is proposed for the numerical solution of distributed optimal control problems. By using this interface, numerical optimization algorithms can be designed to take advantage of inherent problem features like the splitting of the variables into states and controls and the scaling inherited from the functional scalar products. Further, the interface allows the optimization algorithm to make efficient use of u ...

17 High-level semantic optimization of numerical codes 82%

 Vijay Menon , Keshav Pingali

Proceedings of the 13th international conference on Supercomputing
May 1999

- 18 Poster session: A four-bit full adder implemented on fast SiGe 80%
FPGAs with novel power control scheme
K. Zhou , M. Chu , C. You , J.-R. Guo , J.-R. Guo , J. Mayega , B. S. Goda , R. P. Kraft , J. F. McDonald
Proceedings of the international symposium on Field programmable gate arrays February 2003
The low operating speed of current CMOS Field Programmable Gate Arrays (FPGAs), i.e., 10-220 MHz, has prevented their use in high-speed digital applications. With the advent of IBM Silicon Germanium (SiGe) 7HP technology, designers have been able to design FPGAs operating in the gigahertz range. This paper is going to elaborate on the implementation of a 4-bit ripple-carry full adder (FA) on the new SiGe FPGA with new architectures and a novel power management strategy. The 1-bit FA can be reali ...
- 19 Poster session: A high resolution diagnosis technique for open and 80%
short defects in FPGA interconnects
Mehdi Baradaran Tahoori
Proceedings of the international symposium on Field programmable gate arrays February 2003
A two-step diagnosis flow, coarse-grain and fine-grain, is presented in order to identify a faulty element in the FPGA interconnects. The fault models used for interconnect are open, resistive-open, and bridging fault. The coarse-grain phase identifies the faulty net, the routing between two consecutive sequential elements in the FPGA. This phase is performed by just post-processing tester results for the test configurations used for interconnect testing. During the fine-grain step, the faulty n ...
- 20 Poster session: Application-dependent testing of FPGAs for 80%
bridging faults
Mehdi Baradaran Tahoori
Proceedings of the international symposium on Field programmable gate arrays February 2003
A new technique is presented for testing for bridging faults in the interconnects of an arbitrary design implemented in an FPGA. The configuration of the routing resources used in the original design remains unchanged in the test configurations. Only the logic blocks used in the design are reprogrammed in order to implement single-term functions, logic functions with only one minterm or one maxterm. As shown by formal proofs, all activated faults are detected when single-term functions and appro ...